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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/004,034	10/31/2001	Marvin Glenn Wong	10010378-1	5185
7590 03/02/2005			EXAMINER	
AGILENT TECHNOLOGIES, INC. Legal Department. DL429 Intellectual Property Administration P.O. Box 7599 Loveland, CO 80537-0599			ROJAS, BERNARD	
			ART UNIT	PAPER NUMBER
			2832	
			DATE MAILED: 03/02/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.



	Application No.	Applicant(s)			
	10/004,034	WONG, MARVIN GLENN			
Office Action Summary	Examiner	Art Unit			
	Bernard Rojas	2832			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).					
Status					
1)⊠ Responsive to communication(s) filed on <u>03 December 2004</u> .					
2a)⊠ This action is FINAL . 2b)☐ This	action is non-final.				
·	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.				
Disposition of Claims					
4) ☐ Claim(s) 1-8 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-8 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or election requirement.					
Application Papers					
9) ☐ The specification is objected to by the Examiner.					
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.					
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 06132003, 06252003.	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:				

DETAILED ACTION

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Yao [US 5,578,976] in view of Ma [US 6,529,093].

Claim 1, Yao teaches a MEMS switch [10] comprising a non-conductive deflecting beam [20] attached to a substrate [12], an actuator plate [16] attached to said substrate, an attracted plate [24] attached to said deflecting beam, a first signal path plate [18, 22] attached to said substrate a second signal path plate [22] attached to said deflecting beam and wherein said first and second signal path plates are connected to a signal path so that when said first and second signal path plates are in close proximity to each other the signal path closes [col. 3 lines 50-62].

Yao fails to teach the use of a dielectric attached to one of said first or second signal path plates.

Ma teaches the use of a dielectric [509] attached to a signal path in a MEMS switch [501] comprising a deflecting beam [503] attached to a substrate [515], an actuator plate [507] attached to said substrate a first signal path plate [505] attached to the substrate.

It would have been obvious to one having ordinary skill in the art at the time the invention was made to use the dielectric layer taught by Ma in the Mem switch of Yao in order to prevent arcing when the switch is activated [Ma, col. 3 lines 23-25].

Claim 2, Yao discloses that the deflection beam is a cantilever [figures 1-2].

Claim 3, Ma teaches that the deflecting beam can be configured as either a cantilever beam [figure 5a-5b] of having a first and second fixed ends [figures 6a-6c]. It would have been obvious to one having ordinary skill in the art at the time the invention was made to use a deflection beam with both ends fixed instead of a cantilever since they are equivalent types of Mem switch architectures used in the Mem switching art is well known as shown by Ma [figures 5a-6c]. The selection of any of these known equivalents to perform the switching function would be within the level of ordinary skill in the art.

Claims 4-8, the method steps of actuating the Mem switch are obvious in the product structure as discussed for claims 1-3 [col. 4 line 54 - col. 5 line 15].

Response to Arguments

Applicant's arguments, see page 4 of the Amendment, filed 12/03/2004, with respect to the rejection(s)of claim(s) 1 and 4 under 103(a) have been fully considered and are persuasive. Therefore, the rejection has been withdrawn. However, upon further consideration, a new ground(s) of rejection is made in view of the teachings of Yao [US 5578976 A].

Conclusion

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Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Bernard Rojas whose telephone number is (571) 272-1998. The examiner can normally be reached on M-F 8-4:00), every other Friday off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Elvin G. Enad can be reached on (571) 272-1990. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Business Center (EBC) at 866-217-9197 (toll-free).

Art Unit: 2832

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic

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